

I Claim:

1. A micro adjuster for a paper punch die having at least one punch pin capable of punching at least one hole in at least one sheet of paper, wherein said sheet of paper is guided by guides set on either side of the at least one sheet of paper, said guides guiding said at least one sheet of paper properly in a centrally aligned manner through the punching die to a predetermined punching position adjacent to said at least one punch pin, said micro adjuster comprising:

a hollow threaded member laterally movable with respect to a corresponding fixed threaded member;

said hollow threaded member engagable with the die; and,

said hollow threaded member and the die laterally movable in unison to a predetermined position corresponding to said predetermined punching position at least one sheet of paper.

2. The micro adjuster as in Claim 1 wherein said at least one punch pin is a plurality of punch pins and said at least one hole is a plurality of holes in said at least one sheet of paper.

3. The micro adjuster as in Claim 2 wherein said at least one sheet of paper is a plurality of sheets of paper.

4. The micro adjuster as in Claim 3 wherein said plurality of holes is row of holes adjacent to an edge of said plurality of

sheets of paper, to facilitate binding of said sheets of paper by a mechanical binding inserted therein.

5        5. The micro adjuster as in Claim 4 wherein said mechanical binding is a spiral coil.

6. The micro adjuster as in Claim 4 wherein said mechanical binding is a ring of a ring binder.

10        7. The micro adjuster as in Claim 4 wherein said mechanical binding is a fastener.

8. The micro adjuster as in Claim 1 wherein said at least one punch pin is a cover window punch pin.

5        9. The micro adjuster as in Claim 1 wherein said hollow threaded member has an axially bore extending therethrough;

said hollow threaded member further having a retaining fastener at a distal end thereof;

20        said retaining fastener attaching the die to said hollow threaded member;

wherein said fixed threaded member is a fixed end bracket having a threaded hole retaining said hollow threaded member having threads engaged by fine threads of said fixed end bracket,

25        wherein said retaining fastener attaches said die to said hollow threaded member; and,

whereby, fine lateral adjustments of between the paper sheets to be punched and the punch die can now be performed by moving the punch die laterally.

5           10. The micro adjuster as in Claim 9 wherein said hollow threaded member has outer threads engagable with inner threads of said fixed threaded member.

10           11. The micro adjuster for a paper punch die as in Claim 9 wherein said hollow threaded member has a disk shaped knurled handle on one end of said laterally movable hollow threaded member.

15           12. The micro adjuster as in Claim 9 wherein an actuator wrench is insertable within said axially aligned bore of said hollow threaded member to alternately tighten and untighten said retaining fastener to the punch die.

20           13. The micro adjuster as in Claim 12 wherein said actuator wrench is an Allen wrench engagable with said retaining fastener.

25           14. The micro adjuster as in Claim 12 wherein said retaining fastener emerges through a clearance hole at a distal end of said micro adjuster and engages with a threaded hole in the punch die; said retaining fastener being alternately tightened and untightened by said actuator turning within said axially aligned

bore of said hollow threaded member.

15. The micro adjuster as in Claim 1 wherein said at least one sheet of paper is a plurality of calendar month pages and said at least one punch pin is a single pin imparting a single hole in said plurality of calendar month pages at respective bottom edges thereof, for flipping a used calendar month page of said plurality of calendar month pages and hanging said used calendar month page on a calendar holding nail, to expose the next, subsequent calendar month page beneath.

16. A laterally adjustable punch die in combination with a paper punch machine comprising:

a paper punch machine including a punch die having a recess for insertion of multiple sheets of paper therein;

said punch die having a movable punch portion with at least one punch pin punching at least one hole within said multiple sheets of paper;

said multiple sheets of paper being retained in a position for punching of said at least one hole therein by a pair of side guides;

said punch die being laterally movable with respect to a desired punching position against said multiple sheets of paper by a hollow threaded member having outer threads engagable with inner threads of a fixed bracket of said paper punch machine for laterally advancing and retracting said punch die with respect to

said desired punching position; and,

said hollow threaded member having a bore extending  
therethrough for insertion of an actuator wrench engaging a  
retainer fastener fixing said hollow threaded micro adjuster to  
5 said punch die.

17. A method of laterally moving a paper punch die with  
respect to a desired punching position against a positionally  
fixed plurality of sheets of paper to be punched by said paper  
10 punch die, comprising the steps of:

threadably attaching a hollow threaded micro adjustment  
member to reciprocating threads of a fixed bracket of a paper  
punch machine holding said paper punch die;

retaining said hollow micro adjustment member in engagement  
with fine threads of said fixed bracket;

inserting a retaining screw attachable to said punch die  
through a hollow bore within said micro adjustment member and out  
of a clearance hole at a distal end therein;

laterally adjusting said punch die to the desired punching  
20 position above the plurality of sheets of the paper to be  
punched; and,

locking said punch die in place so that no more lateral  
movement of said punch die occurs.